

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

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Reel #458  
Ranney, G.G.

S/130/62/000/002/005/005  
A006/A101

AUTHORS: Khasin, G. A., Chikina, V. G., Bogdashkin, A. I., Rannev, G. G.,  
Bruns, G. L., Vashchenko, Yu. I.

TITLE: A unit for the hot drawing of hard-to-deform steels

PERIODICAL: Metallurg, no. 2, 1962, 33 - 35

TEXT: At the Zlatoust Metallurgical Plant a unit for the hot drawing of hard-to-deform steels was developed and put into operation. It consists of a drawing mill, type I/750M, a tubular furnace to preheat the wire and a device for measuring the wire temperature during drawing. The wire is preheated in the tubular furnace by passage through molten lead and a charcoal layer. The capacity of the furnace is 75 kw, feed voltage 380 v, and the amount of lead 2,000 kg. The lead level remained almost unchanged after the calibration of over 100 tons high-speed steel; the wear of the draw plates is about 0.01 mm per 1 ton of wire. The wire temperature when leaving the draw plate is controlled by an infrared photo-electric pyrometer developed by NIIM, being able to measure temperatures within a range of 200 - 500°C. The pyrometer is combined with an electronic potentiometer ЭПП-120 (EPP-12). The least wire diameter during the measurement

Card 1/2

A unit for the hot drawing of hard-to-deform steels

S/130/62/000/002/005/005

A006/A101

is 2 mm. The distance from the sensitive head to the wire surface is 5 - 10 mm. The device is power-supplied from a 220 v 50 cycle circuit through a ferro-resonance voltage stabilizer. The device operates on the principle of measuring the intensity of infrared radiation of the heated metal. Its block-circuit is given. The draw plate temperature is controlled and regulated by an induction power-frequency heater which is mounted on the draw-plate holder, in whose body a manometric thermometer is mounted. The introduction of the hot drawing method at the Zlatoust Plant yielded the following results: reduction of heat treatment and preparatory operations by a factor of 3 -4; reduction of technological production time; increase of the drawing-drum efficiency; reduction of annealing time by about 35.5 hours per one ton of steel; reliable operation of the unit and the possibility of using it in other plants. There are 3 figures.

ASSOCIATIONS: Zlatoustovskiy metallurgicheskiy zavod (Zlatoust Metallurgical Plant); Chelyabinskii NIIM (Chelyabinsk NIIM)

Card 2/2

KHASIN, G.A.; CHIKINA, V.G.; BOGDASHKIN, A.I.; RANNEV, G.G.; BRUNS, G.L.;  
VASHCHENKO, Yu.I.

Equipment for the hot drawing of deformation-resistant steel.  
Metallurg 7 no.2:33-35 F '62. (MIRA 15:3)

1. Zlatoustovskiy metallurgicheskiy zavod i Chelyabinskij NIIM.  
(Drawing (Metalwork)--Equipment and supplies)

KOPYRIN, I.A.; RANIEV, G.G.; SMIRNOV, Yu.D.; CHERNOV, G.I.;  
BOGATEIKOV, V.F.; BOKOV, I.I.; TSIPUNOV, A.G.; RISSEL', K.N.;  
AGARKOVA, N.A.; DAYKER, A.L.

Research by the Chelyabinsk Metallurgical Research Institute.  
Stal' 22 no.7:604,620-621,667,670 Jl '62. (MIRA 15:7)  
(Metallurgical research)

KH~~A~~SIN, G.A.; CHIKINA, V.G.; KASHIN, Yu.A.; Prinimali uchastiye: PETUKHOV,  
S.P. [deceased]; VALENTOVA, R.I.; RANNEV, G.G.

Warm drawing of steel wire. Stal' 23 no.3:271-273 Mr '63.  
(MIRA 16:5)  
1. Zlatoustovskiy metallurgicheskiy zavod i Nauchno-issledovatel'skiy  
institut metiznoy promyshlennosti.  
(Wire drawing)

ANDREYUK, L.V.; RANNEV, G.G.; KOROTKEVICH, B.M.; NOVIKOV, M.N.;  
DOLZHENKOV, F.Ye.

New developments in research. Stal' 24 no.8:730 Ag '64.  
(MIRA 17:9)

VASIN, I.I., inzh.; VYSOKOVSKIY, S.N., inzh.; RANNEV, G.G., inzh.

Strain and pressure pickup. Priborostroenie no.1:28 Ja '63.  
(MIRA 16:2)  
(Strain gauges)

RANHEV, G.G.; SALIN, A.A., kand.tekhn.nauk; KOGOL', I.M.; LIKOVICH, L.G.

Automatic sampler and dispenser for saturated aqueous solutions.

Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform.

no.9:33-36 '63. (MIRA 16:10)

GRANOV, G.I., VYDOKHINOV, S.N., MIKHALEV, V.V., TROFIMOV,  
POZAROV, V.I., SHTERNIK, V.M.

Using continuous operating dynamometers on strip mills.  
Metallurg 10 no. 7:25-27 Je. 165. (MIRK 187)

1. Nauchno-issledovatel'skiy institut metalurgii i kachestva  
metallurgicheskikh zavod.

L 47167-66 EWT(d)/EWT(m)/EWP(v)/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(l) IJP(c)

ACC NR: AR6000437

SOURCE CODE: UR/0137/65/000/009/D005/D005

JD/HW

AUTHORS: Vysokovskiy, S. N.; Rannev, G. G.; Sokolov, V. A.; Andreyuk, L. V.; Merkulova, R. M. 44  
B

TITLE: Energy and temperature parameters for rolling of thin sheets from different steels and alloys on stand "1500"

SOURCE: Ref. zh. Metallurgiya, Abs. 9D33

REF SOURCE: Sb. Teoriya i praktika metallurgii. Vyp. 7. Chelyabinsk, 1964, 90-100 test test

TOPIC TAGS: metal rolling, metallurgic machinery, sheet metal, stand / 1500 stand

ABSTRACT: The energy and temperature parameters during hot rolling of sheets were investigated on a reversible 4-roller stand 1500. The metal pressure on the rollers, armature current, excitation current, mean square current of the motor, velocity of revolution of rollers, displacements of pressure bolts, thickness of sheets, and their temperature were determined. The results of the measurements are tabulated. Calculated results are compared with experimental data. Investigations have shown that it is possible in some cases to decrease the number of rolling operations without exceeding the maximum permissible pressure. In other cases, the redistribution of compressions between passages permitted a more uniform stand loading without exceeding the maximum permissible metal pressure on the rollers. 10 illustrations, 1 table. Bibliography of 5 citations. I. Shenova [Translation of abstract]

SUB CODE: 13, 11

Card 1/1 eight

UDC: 621.771.001

OZEROV, R. P.; FYKIN, L. Ye.; RANNEV, N. V....

"Neutron-diffraction investigation of the crystal structure of lithium sulphate monohydrate,  $\text{Li}_2\text{SO}_4\text{H}_2\text{O}$ ."

report submitted for 6th Gen Assembly, Intl Union of Crystallography, Rome,  
9 Sep 63.

Karpov Inst Phys Chem, Moscow.

RANNEV, N.V.; OZEROV, R.P.

Neutron diffraction determination of the position of hydrogen atoms  
in the structure of dicyanodiamide. Dokl. AN SSSR 155 no.6:  
1415-1418 Ap '64. (MIRA 17:4)

I. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavлено  
akademikom N.V.Belovym.

OZEROV, R.P.; FYKIN, L.Ye.; RANNEV, N.V.; ZHDANOV, G.S.

Neutron diffraction study for the localization of hydrogen atoms in the structure of lithium sulfate monohydrate  $\text{Li}_2\text{SO}_4 \cdot \text{H}_2\text{O}$ . Dokl. AN SSSR 148 no.5:1069-1072 F '63. (MIRA 16:3)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavleno akademikom N.V.Belovym.  
(Neutron diffraction crystallography) (Lithium sulfate)  
(Hydrogen)

OZEROV, R.P.; RANNEV, N.V.; PAKHOMOV, V.I.; REZ, I.S.; ZHDANOV, G.S.

Structure of  $KIO_3$  at room temperature. Kristallografiia ?  
no.4:620-622 J1-Ag '62. (MIRA 15:11)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova.  
(Potassium iodide crystals)

ZHDANOV, G.S.; ZVONKOVA, Z.V.; RANNEV, N.V.

X-ray examination of the structure of lead diethyldithiocarbamate.  
Kristallografiia 1 no.5:514-519 '56. (MLRA 10:2)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova.  
(X-ray crystallography)  
(Lead organic compounds)

RANNEV, N. V.

An x-ray structural study of lead diethyldithiocarbamato.  
G. S. Zhidkov, Z. V. Zvonkova, and N. V. Rannev [u. v. 1,  
Karnov Phys. Chem. Inst., Moscow]. Kristallografiya 1,  
614-18 (1966). Prismatic crystals of  $(\text{Et}_2\text{NCS})_2\text{Pb}$ , ob-  
tained by crystn. from benzene, were monoclinic, of space  
group  $P2_1/c$ , with cell dimensions  $a = 9.85$ ;  $b = 11.71$ ;  $c =$   
 $14.72$  Å, and  $\beta = 98^\circ$ .  $Z = 4$ ;  $d_{\text{calc}} = 2.02$ , and  $d_{\text{meas}} =$   
 $2.04$ . Certain crystals had  $c$  axes of  $44.1$  Å. Obj and MV  
Patterson projections led to the corresponding Fourier pro-  
jections, which gave the at. coordinates ( $x, y, z$ ): Pb 0.260,  
0.112, 0; S 0.47, 0.18, 0.13; Si 0.07, 0.29, 0.94; Sii 0.01,  
0.16, 0.13; Siv 0.42, 0.29, 0.94. C peaks were only imper-  
fectly resolved. The Pb atom is pyramidal surrounded by  
4 S atoms at distances 2.7 and 2.8 Å, the Pb-Pb distance  
being 4.25 and the S-S distances 3.3 and 3.6 Å. The mixed-  
character of the Pb-S bonds explains the increase in dipole  
moment compared with the Zn and Ni analogs.

A. L. Mackay

3

6m

WDS  
mu

5.3800

Sov. J. Chem., 1960, 34, 12

AUTHORS: Shatensteyn, A. I., Taranov, A. N., Zvyagintsev, N. I.

TITLE: Concerning the Mechanism of Hydrogen Exchange Between Aromatic Compounds and Bases. (Factors of Partial Rate of Deuteriumexchange Between Diphenyl Ether and Paracetamide in Liquid Ammonia)

PERIODICAL: Zhurnal obshchei khimii, 1960, Vol. 30, No. 1, pp. 582-589  
(USSR)

ABSTRACT: This paper describes the determination of constants of partial rate of exchange of *p*-, *m*-, and *o*-nitrophenoxide (P) of diphenyl ether and methoxybenzene with potassium paracetamide in liquid ammonia at low temperatures. The apparatus and procedure used were described previously. A. I. Shatensteyn, Ye. N. Zvyagintsev, DAN SSSR, 1956, 108, 112, 1957; A. I. Shatensteyn, ZNKh, 19, 285, 1957. The following reagents were used: diphenyl ether, distilled under vacuum over sodium, mp 50°, bp 273°,  $\eta_{D}^{20}$  4.63.

Care #3 Hexadeuteriodiphenyl ether was prepared by dissolving

Concerning the Mechanism of Hydrogen Exchange Between Aromatic Compounds and Bases (Factors of Partial Rate of Deuteration exchange Between Diphenyl Ether and Potassium Amide in Liquid Ammonia).

diphenyl ether in liquid D<sub>2</sub>O; the deuteration of benzene was done according to reaction ND<sub>3</sub> + KND<sub>2</sub>; 2,4-dinitrodeuteriomethoxybenzene was described previously (A. I. Shatenshteyn, A. V. Vedeneev, ZhChK, 20, 264, 1938). It was found that there is a linear dependence between the log of factors of partial rate of diphenyl-ether deuterium exchange with organic bases and the negative log of ionization constants in water of diphenyl ether derivatives with the same substituents. The rate of deuteration exchange of p-hydrogen atoms in diphenyl ether derivatives is determined by the acidity of the OH-group, which depends on its polarization resulting from the electronic effect of the substituents. The rate of deuteration exchange with organic bases in liquid ammonia is negligible, determined by the degree of ionic bond of diphenyl ether, the absorption of protons by bases.

Concerning the Mechanism of Hydrogen Exchange Between Aromatic Compounds and Bases (Factors of Partial Rate of Deuteric-exchange Between Diphenyl Ether and Potassium Amide in Liquid Ammonia) 27895 SCV-79-30-2-4678

6 tables; and 15 references. 2 U.S. + 2 U.K., 2 German, 9 Soviet. The U.S. and U.K. references are: G. E. Hall, R. Piccolini, J. D. Roberts, J. Am. Chem. Soc., 77, 4540 (1955); H. C. Brown, D. H. McDaniels, O. Höffiger, in book, "Determination of Organic Structure by Physical Methods," ed. by A. E. Brügel, P. C. Nachod; D. Bryce-Smith, J. Chem. Soc., 1954, 1973; D. Bryce-Smith, V. Gold, D. P. N. Salingar, J. Chem. Soc., 1954, 2743.

ASSOCIATION: I. Ya. Karpov Institute of Physical Chemistry (Fiziko-khimicheskiy institut imeni I. Ya. Karpova)

SUBMITTED: February 6, 1959

Card 3/3

L 10750-63

EWP(q)/EWT(m)/BDS--AFFTC/ASD--JD

ACCESSION NR: AP3001952

S/0226/63/c03/c03/c025/c029

54

AUTHOR: Skorokhod, V. V.; Ranneva, G. O.

53

TITLE: Investigation of sintering of Ni powders prepared by different methods

SOURCE: Poroshkovaya metallurgiya, no. 3, 1963, 25-29

TOPIC TAGS: carbonyl Ni powder, electrolytic Ni powder, sintering behavior, viscosity, linear shrinkage, interparticle contact, porosity, lattice distortion

ABSTRACT: An investigation of the kinetics of sintering 99.5%-pure electrolytic and 99.9%-pure carbonyl Ni powder at temperatures equal to or less than  $0.56T_m$ , °K ( $T_m$  = melting temperature) has been made in an effort to determine the effect of physicochemical properties of powders produced by different methods. The average particle size was  $24.5\mu$  for the electrolytic powder and  $9.7\mu$  for the carbonyl powder. Specimens  $5 \times 5 \times 10$  mm were compacted with a porosity of 36-39% and sintered in hydrogen at 300, 400, 500, 600, and 700°C for 8 hr. Significant differences in sintering behavior were observed in the powders tested. The carbonyl powder was considerably more active than the electrolytic powder. The linear shrinkage of both powders increased with increasing

Card 1/43

L 10750-63  
ACCESSION NR: AP3001952

temperature and prolonged holding, but in electrolytic powder after 440 min at 400, 500, 600, and 700°C, it amounted to approximately 0.34, 0.39, 0.50, and 0.92%, respectively; the corresponding figures for carbonyl powder were approximately 1.40, 3.80, 6.00, and 3.70%. The growth of the interparticle contact areas, measured as  $\lambda_{\text{pr}}/\lambda_k$  (where  $\lambda_{\text{pr}}$  is the electrical conductivity of compacts reduced to zero porosity and  $\lambda_k$  is the electrical conductivity of solid material), followed the same pattern as that of linear shrinkage and after sintering for 440 min at 300, 400, 500, 600, and 700°C amounted to approximately 0.30, 0.40, 0.58, 0.80, and 0.92%, respectively, for electrolytic powder and approximately 0.73, 0.85, 0.90, 0.94, and 0.95%, respectively, for carbonyl powder. Porosity of the carbonyl nickel compacts decreased much more rapidly than that of the electrolytic nickel compacts (see Fig. 1 of Enclosure). The experimentally determined values of the coefficient of viscosity for electrolytic Ni at 700°C did not differ significantly from the value calculated from the Nabarro formula; for carbonyl Ni, however, the calculated value was almost four orders higher, which indicates that carbonyl Ni has much higher diffusion activity than electrolytic Ni. The crystal lattice of electrolytic Ni was found to be more distorted than that of carbonyl Ni, which shows that lattice distortions have no effect on the sintering activity of powders. The only explanation for

Card 2A3

L 10750-63

ACCESSION NR: AP3001952

the higher activity of carbonyl powder appears to be a highly developed network of macrodefects. Orig. art. has: 5 figures, 2 formulas, and 2 tables.

ASSOCIATION: Institut metallokeramiki i spetsialnykh splavov AN USSR  
(Institute of Powder Metallurgy and Special Alloys, AN USSR)

SUBMITTED: 22Dec62

DATE ACQ: 11Jul63

ENCL: 01

SUB COIE: ML

NO REF Sov: 005

OTHER: COO

Card 3143

SHATEINSKAYA, A.I.; SHAPIRO, I.O.; YAKUSHIN, P.S.; ISATIVA, G.G.; RAKHIMOV, Yu.I.

Comparison of the acidity of organic compounds in dimethylsulfoxide,  
ammonia, and cyclohexylamine based on the variation of hydrogen  
exchange rates. Kin. i kat. 5 no.4:752-753 Jl-Ag '64.

(MIRA 17:11)

1. Fiziko-khimicheskiy institut imeni Karpova.

SHATENSHEYN, A.I.; RANNEVA, Yu.I.; KOVALENKO, T.T.

Deuterium exchange method of studying the electron acceptor  
and electron donor properties of substitutents in aromatic  
rings. Zhur.ob.khim. 32 no.3:967-974 Mr '62. (MIRA 15:3)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova.  
(Substitution (Chemistry)) (Deuterium)

SHATENSHTEYN, A.I.; RANNEVA, Yu.I.

Factors of the partial rate of deuterium exchange in dimethylaniline  
with potassium amide solution in liquid ammonia, and the mechanism  
of basic deuterium exchange. Zhur. ob. khim. 31 no.5:1423-1431 My  
'61. (MIRA 14:5)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova.  
(Deuterium) (Potassium amide) (Aniline)

CZECHOSLOVAKIA / Chemical Technology. Chemical Products and Their Application. Fats and Oils. Waxes. Soaps. Detergents. Flotation Agents. H-25

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 2660.

Author : Ranny, M., Kyslinger, V.

Inst : Not given

Title : Alkyl Aryl Sulfonates -- the New Agents for Laundry. Part II. The Action and Properties of Alkyl Aryl Sulfonate Detergents.

Orig Pub: Prumysl potravin, 1956, 7, No 10, 450-455,  
No 11, 491-497.

Abstract: A short review is given on the development in production and the properties of new alkyl aryl sulfonate detergents obtained by the condensation of benzene with chlorinated petroleum hydrocarbons,

Card 1/2

BRUTUS, L., kand. ekon. nauk, glav. red.; ANTONS, R., red.; POLISINSKI, U., red.; KAGANOVITS, I., kand. ekon. nauk, red.; KULL, E., kand. ekon. nauk, red.; MUREL, R., red.; RANNIK, E., red.; VINT, E., kand. ekon. nauk, red.; RIIKOJA, L., red.; KOHU, H., tekhn. red.

[Economic life of Soviet Estonia, 1940-1960] Noukogude Eesti majandus, 1940-1960. Tallinn, Eesti Riiklik Kirjastus, 1960. 478 p. (MIRA 16:6)

1. Eesti NSV Teaduste Akadeemia. Majanduse Instituut. 2. Chlen-korrespondent AN Estonskoy SSR (for Antons).  
(Estonia--Economic conditions)

ACCESSION NR: AT4042304

S/0000/63/003/000/0271/0279

AUTHOR: Mezhdurd, V. I., Parts, R. R., Rannu, L. Kh. Teearu, V. A.

TITLE: A magnetic system for low-power DC high-pressure pumps

SOURCE: Soveshchaniye po teoreticheskoy i prikladnoy magnitnoy gidrodinamike. 3d, Riga, 1962. Voprosy\* magnitnoy hidrodinamiki (Problems in magnetic hydrodynamics); doklady\* soveshchaniya, v. 3. Riga, Izd-vo AN LatSSR, 1963, 271-279

TOPIC TAGS: pump, direct current pump, high pressure pump, low power pump, electromagnetic pump, pump magnetic system

ABSTRACT: The article deals with the problem of designing a magnetic system for low-power DC high-pressure pumps (on the order of  $7 \text{ kg/cm}^2$  and above with a productivity up to  $100 \text{ cm}^3/\text{sec}$ ). Since these pumps make use of a helical channel, their magnetic system most frequently also consists of bodies of rotation (Figures 1 & 2 of the Enclosure). The advantages and disadvantages of the helical-channel magnetic system and the U-shaped system are discussed and it is pointed out that the latter may be considered as consisting of two simpler magnetic systems (See Figure 1). For this reason, greater attention is paid to this system in the present article. The geometry of the magnetic system in the air

1/5

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ACCESSION NR: AT4042304

gap is determined and formulas are presented for establishing the length of the polar core L<sub>p</sub>. The authors note that in carrying out a verification calculation of a magnetic system, it is also necessary to determine the magnetic dispersion flows and the magnetic conductances. Formulas are given which are applicable to the system shown in Figure 1. It is shown that, once the magnetic flows or conductances have been found, it is a simple task to calculate the dispersion factor and also to determine the magnetic flows in the individual sections of a particular segment of the magnetic circuit. This provides a basis for determining the magnetic inductances in the sections and by means of the latter, in turn, the calculated intensity of the magnetic field may be found, through the use of the basic magnetization curve of the material of which the corresponding segment of the magnetic circuit is manufactured. From this point on, the calculation of the magnetic system of the pump is quite similar to that of the magnetic system of DC electric motors. For the purpose of providing some idea of the order of magnitude of values that might be anticipated, a table is given in the article showing certain data with respect to the magnetic system (See Figure 1) of an experimental direct-current electromagnetic pump developing a pressure of 2 kg/cm<sup>2</sup> with a productivity of 10 cm<sup>3</sup>/sec. Orig. art. has: 1 table, 3 figures and 38 formulas.

2/5  
Card

ACCESSION NR: AT4042304

ASSOCIATION: none

SUBMITTED: 04Dec63

ENCL: 02

SUB CODE: IE

NO REF SOV: 004

OTHER: 000

3/5

Card

ACCESSION NR: AT4042304

ENCLOSURE: 01

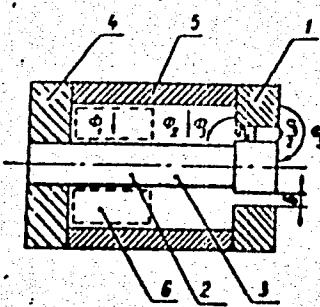


Fig. 1. Magnetic system of low-power DC pump with a helical channel: 1 - external polar terminal; 2 - internal polar terminal; 3 - polar core; 4 - yoke; 5 - external polar core (in the form of a hollow cylinder); 6 - driving coil.

Card 4/5

ACCESSION NR: AT4042304

ENCLOSURE: 02

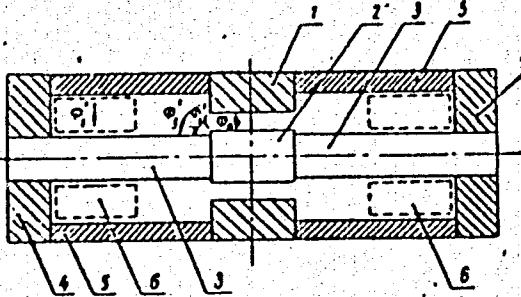


Fig. 2. U-shaped cylindrical magnetic system of a low-power DC pump with a helical channel: 1 - external polar terminal; 2 - internal polar terminal; 3 - polar core; 4 - yoke; 5 - external polar core; 6 - driving coil (the axis of the bodies of rotation is horizontal).

Card 5/5

ACC NR: AP6034908

SOURCE CODE: UR/0382/66/000/002/0135/0138

AUTHOR: Vol'dek, A. I.; Rannu, L. Kh.; Yanes, Kh. I.

ORG: none

TITLE: On certain new orientations in the development of special windings for devices with a traveling magnetic field.

SOURCE: Magnitnaya gidrodinamika, no. 2, 1966, 135-138

TOPIC TAGS: magnetic induction, winding, magnetic field, MHD generator

ABSTRACT: Special windings are required for devices of this kind, such as liquid-metal induction pumps, MHD induction generators with a liquid-metal working fluid, steel-furnace melt stirrers, rotators of molten metal in tube-casting installations, etc. because this involves substantial linear current loads and often requires internal water-cooling of the windings. In this connection, the article describes the design and specifications of more suitable windings which are beginning to be introduced. They have the shape of flat concentric coils, which greatly simplifies their fabrication and installation and enhances their operating reliability. Under normal conditions their performance is inferior to that of conventional helical windings, but

Card 1/2

UDC: 621.313.39:538.4

ACC NR: AP6034908

once the nonmagnetic clearance between two ferromagnetic cores increases to a considerable extent, and thus necessitates a marked increase in the linear current load of the windings (as is the case with the electromagnetic induction pump and other similar devices with a traveling or rotating magnetic field) these new flat concentric coil-shaped windings outperform their conventional counterparts and display such additional advantages as greater compactness of the inductor and more or less complete elimination of nonuniformity of coil spacing owing to the shortening of this spacing. Orig. art. has: 1 table.

SUB CODE: ~~32~~, 09, 13 / SUBM DATE: 17Dec65 / ORIG REF: 004

Cord 2/2

ACCESSION NR: AT4042305

S/0000/63/003/000/0281/0288

AUTHOR: Mezhburd, V. I.; R. R. Parts; L. Kh. Rannu; M. M. Saar; V. A. Teearu

TITLE: Design of the channels of low-power high-pressure DC pumps

SOURCE: Soveshchaniye po teoreticheskoy i prikladnoy magnitnoy gidrodinamike. 3d, Riga, 1962. Voprosy\* magnitnoy hidrodinamiki (Problems in magnetic hydrodynamics); doklady\* soveshchaniya, v. 3. Riga, Izd-vo AN LatSSR, 1963, 281-288.

TOPIC TAGS: direct current pump, high pressure pump, low power pump, electromagnetic pump, pump channel design, helical pump

ABSTRACT: The authors discuss the various reasons why, when increasing the working pressure of a pump, a channel of linear form is not suitable. The need for a transition from a channel of linear form to one of some other, more rational, configuration is determined primarily by the working pressure and secondarily by the ratio between the working pressure and the productivity of the pump with the hydraulic power remaining constant. The helical channel form is considered at length. It is shown that, by virtue of its special features, the energy specifications of a helical channel are better than those of a linear channel of identical dimensions. The authors analyze some of the peculiarities inherent in

1/3

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ACCESSION NR: AT4042305

the electromagnetic processes which occur in the helical channel. It is demonstrated that the basic peculiarities of the helical pump are due to the closed structural design of the circular gap, the radial direction of the fundamental field in the gap, the dependence of the induction of the fundamental field on the radius, the presence of centrifugal forces in the liquid metal and the presence of an angle of inclination of the helix, which gives rise to a deviation of the velocity vector of the metal from the tangential direction. An equivalent circuit for a helical channel is constructed, on the basis of which expressions are derived from the working current component normal to the side walls of the channel, the tangential component of the current in the channel (along the helix), and certain other factors. In the final section of the paper, the authors take up the problem of the "wall - liquid metal" contact resistance. Details are given of a series of tests conducted to study this problem. The fundamental results of these tests may be summarized as follows: 1. Extreme instability of  $r_k$  is observed, particularly for oxide and pure-steel surfaces; 2. The contact resistance possesses attributes of a semiconductive nature; 3. The magnitude of the contact resistance fluctuates from  $0.9 \cdot 10^{-6}$  ohm·cm<sup>2</sup> for tin-plated steel surfaces to  $1 \cdot 10^{-1}$  ohm·cm<sup>2</sup> for severely oxidized surfaces; 4. In devices in which there is no special

2/3

Cord

ACCESSION NR: AT4042305

requirement for purity of the mercury, tinning the steel surfaces practically leads to the total disappearance of contact resistance; 5. The contact resistance of surfaces which have not been tinned is unstable in time. Orig. art. has: 3 figures and 20 formulas.

ASSOCIATION: None

SUBMITTED: 04Dec63

ENCL: 00

SUB CODE: IE

NO REF Sov: 005

OTHER: 001

3/3

Card

RANNY, Mojmír, inz., C.Sc.; NOVAK, Jan, inz.; PRACHAR, Josef

Alkylolamides of fat acids. Prum potravin 14 no.4:211-212 Ap '63.

1. Vyzkumný ustav tukového prumyslu, Rakovník.

RANNY, M.

Electrokinetic behavior of synthetic detergents in the area of critical concentrations. In German. Coll.Cz.Chem. 24 no.9:3090-3098 S '59. (BEAI 9:5)

1. Entwicklungslaboratorium fur synthetische Waschmittel, Rakovana, Rakovnik.  
(Cleaning compounds)

RANNY, M. KYSLINGER, V.

"Alkylsulfonate , our new cleaning compounds. Pt. 1. Chemistry and technology.  
p. 533."

PRUMYSL POTRAVIN. Praha, Czechoslovakia. Vol. 6, no. 11. 1955.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, unclas

RANNY, M.; KYSLINGEF, V.

RANNY, M.; KYSLINGEF, V. Alkylarylsulfonates, our new detergents. II. Effectiveness  
and properties of alkylarylsulfonate detergents. (Conclusion)  
p. 491

Vol. 7, no. 11, 1956

PRUMYSL POFRAVIN  
TECHNOLOGY  
Praha, Czechoslovakia

So: East European Accession, Vol. 6, No. 2, 1957

RANOV, A.I.; SMIRNOVA, O.M.

Acute reduction of whooping cough incidence in Kurgan Province. Znur,  
mikrobiol.,epid.i immun. 40 no.12:114-115 D '63.

(MIRA 17-12)

1. Iz Kurganskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.

LOGINOVSKIY, G. Ye.; RANOV, A. I.

Liquidation of malaria morbidity in Kurgan Province. Med. paraz.  
i paraz. bol. no.2:186-189 '62. (MIRA 15:7)

1. Iz Kurganskoy oblastnoy sanitarno-epidemiologicheskoy stantsii  
(glavnnyy vrach V. I. Sokol'skiy)

(KURGAN PROVINCE—MALARIA—PREVENTION)

RAOV, A.I. (Kurgan)

Amateur theaters and "cleanliness carnivals" in the history of  
sanitary-educational work. Sov. zdrav. 22 no.7:28-30 '63.  
(MIRA 16:12)

1. Iz Kurganskoy oblastnoy sanitarno-epidemiologicheskoy stan-  
tsii (glavnnyy vrach V.I.Sokol'skiy).

RANOV. A.I.

Conditions for liquidating malaria as an epidemic disease in Kurgan Province. Med.garez. i paraz.bol.supplement to no.1:29 '57.  
(MIRA 11:1)

1. Iz Kurganskoy oblastnoy sanitarno-epidemiologicheskoy stantsii  
(KURGAN PROVINCE--MALARIA)

RANOV, A.I.

All province conference for workers in the sanitation and  
epidemiological service of Kurgan Province. Sov.zdrav. 15 no.3:  
63-64 My-Je '56. (MLRA 9:8)  
(KURGAN PROVINCE--PUBLIC HEALTH)

RANKY, V. A.

"O sityazym kultur paleolita Sredney Azii i nekoterykh stran zaryadzayushchego Vostoka."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,  
Moscow, 3-10 Aug 64.

RANOV, V.A.

The archaeological study of the Tajikistan caves. Stor. trud. Tadzh.  
fil. Geog. ob-va SSSR no.2:19-30 '61. (MIRA 14:11)  
(Tajikistan--Caves) (Tajikistan--Archaeology)

RANOV, V.A.; SIDOROV, L.F.

Variations in the natural conditions of the Pamirs in the Holocene.  
Dokl. AN Tadzh. SSR 3 no.3:21-24 '60. (MIRA 16:2)

1. Institut istorii, arkheologii i etnografii AN Tadzhikskoy SSR  
i Pamirskaya baza AN Tadzhikskoy SSR. Predstavлено akademikom  
AN Tadzhikskoy SSR A.P. Nedzvetskim.  
(Pamirs—Paleoclimatology)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

Petroglyph traces on the Kurteka cliff. Izv Vses geog ob-va  
96 no. 1:67-69 Ja-F '64. (MIRA 17:5)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

BUTOMO, S.V.; RAMOV, V.A.; SIDOROV, L.F.; SHILKINA, I.A.

Paleogeographic results of the exploration of an alpine Stone-age camp site in the Pamirs. Dokl. AN SSSR 146 no.6:1380-1382 O '62. (MIRA 15:10)

1. Leningradskoye otdeleniye Instituta arkheologii AN SSSR, Pamirskaya baza AN Tadzhikskoy SSR i Botanicheskiy institut im. V.L. Komarova AN SSSR. Predstavлено akademikom D.V. Nal'vkinym. (Pamirs--Paleogeography)

RANOEVICH, M., prof. (Yugoslaviya, Belgrad); NEYMAN, L.R., prof.  
(Leningrad)

Concerning M.Ranoevich's article "Rationalizing of equations of  
an electromagnetic field" and L.R.Neiman's article "Relationships  
between unit values in rationalized and nonrationalized systems  
of equations of an electromagnetic field." Elektrichestvo  
no.11:91-93 N '62. (MIKA 15:11)

1. Chlen-korrespondent AN SSSR (for Neyman).  
(Electric fields) (Ranoevich, M.) (Neiman, L.R.)

AUTHOR: Ranoyević, M., Professor (Beograd,  
Yugoslavia) SC7/105-59-5-4/28

TITLE: The Rationalization of the Electromagnetic Field Equations  
(Ratsionalizatsiya uravneniy elektromagnitnogo polya)

PERIODICAL: Elektrичество, 1959, Nr 6, pp 18 - 22 (USSR)

ABSTRACT: The protracted discussion on the problem of the rationalization of the electromagnetic field equations was caused by a number of misunderstandings, which may be ascribed to the fact that the interpretation of the two systems of equations has never been carried out with sufficient lucidity. In both sets of equations operations are carried out with symbols of physical quantities, units and numerical values, whereas the nature of the operations has not been explained by means of the symbols. The rationalization of the equations can be achieved by an alteration of the quantities. This method, however, exhibits serious shortcomings, as the physical meaning of the quantities is changed and no definite relationship between the old and the new quantities and units is established. The rationalization of the equations by an altera-

Card 1/2

The Rationalization of the Electromagnetic Field Equations SOV/105-59-4/28

tion of the units proceeds as follows: The existence is acknowledged only of rationalized quantities, which correspond to the concept of short-range action, and the non-rationalized quantities are abolished, as with the acceptance of this theory they lose their physical meaning. The rationalized quantities are given the names of non-rationalized quantities, whereas the latter are excluded from use. The non-rationalized quantities are also excluded, and in their place non-coherent units of the rationalized system are introduced, which are given the names of the old units, if such existed. The old equations are considered to represent equations between numerical values, which give numerical values of rationalized quantities, expressed by non-coherent units. The non-coherent units are defined in the same manner as the non-rationalized units, in which case the quantities, which occur in these definitions, have the meaning of rationalized quantities.

Card 2/2

RANOW, S.

Activities of the Circles of the Polish Association of Construction Engineers and  
Technicians at the Institute of Organization and Mechanization of Building. p.182  
(PRZEGLAD BIUROWY, Vol. 28, No. 4, Apr. 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (EHAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

HUNGARY

RANSCHBURG, János, of Chair Pathology and Psychology of the College for Training of Teachers of Mentally Retarded Children; Head Mrs Gyula TÜLÉSI (A Gyógypedagógiai Támrépző Políkola Kör- és Lylektani Szekrénye)

"Imagination Tests of Blind Children in Sound Recognition (Intuition)"  
(Preliminary Report)

Budapest, Magyar Psichológiai Szemle, Vol. 19, No. 4, 1942, pp. 439-450

Abstract (Author's English summary verified): In order to investigate the imaginative faculty of blind children ten short (30 sec) sound patches consisting sounds and musical elements were composed and played before the test child who afterwards was told to write or relate a radio play founded on the novel score. Thus a double task was imposed on the child: to recognize the objective content of the sounds - and to identify the memory and to compose a story of them - activity of the imaginative power.

Most tested children complied the stories only on the basis of

1/2

11

RANSCHBURG, Jeno

"Factors affecting the development of school class communities" by Mrs. Hedvig Just nee Kery. Reviewed by Jeno Ranschburg. Magy pszichol szemle 21 no. 1: 128-130 '64.

RANSCHBURG, Jeno

"Scientific thinking and scientific writing" by M.S.Peterson.  
Reviewed by Jeno Ranschburg. Magy pszichol szemle 20 no.3:488-  
491 '63.

RANSDORF, J.

Sources of vehicle noises and means of their reduction inside the vehicle body.

p. 251, (Automobil) Vol. 1, No. 8, Aug. 1957, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. VOL. - 7, NO. 1, Jan. 1958

RANSDOŘÍF, J.  
CZECHOSLOVAKIA/Acoustics - Noise

J-3

Abs Jour : Ref Zhur - Fizika, No 4, 1958, No 9071

Author : Ransdorf, J.

Inst : Not Given

Title : Sources of Noise in Truck Bodies and Certain Acoustical  
Factors Contributing to Its Reduction

Orig Pub : Automobil (CSR), 1957, 1, No 8, 251-253

Abstract : Examination of the principal sources of noise and description  
of the results of experiments on the reduction of noise in  
the cabins of several types of trucks.

Card : 1/1

RANSDOFF, J.

Contribution to the development of antivibration coatings, p. 103

Ceskoslovenska vedecka technika spolecnost pro zdavotni techniku a  
vzduchotechniku, Praha, Czechoslovakia, Vol. 4, 1959.

Monthly List of East European Accessions, (EEAI) LC, Vol. 8, No. 7, July 1959.  
Uncl.

RANS DORF, J.; NEMEC, J.

Present problems of protection against the noise. p. 107

ZDRAVOTNI TECHNIKA A VZDUCHOTECHNIKA. Praha, Czechoslovakia, Vol. 2, no. 3, 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959  
Uncl.

RANSDORF, J.: NEMEC, J.

Antivibration coatings and their use. P 521

STROJIRENSTVI (Ministerstvo tezkeho strojirenstvi, Ministerstvo vseobecneho strojirenstvi) Praha, Czechoslovakia Vol. 9, no. 7 July 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 9, no. 2,  
Feb. 1960

Uncl.

L 31768-66 EWP(j)/EWP(k)/EWP(h)/T/EWP(l)/EWP(v) IJP(s) RM  
ACC NR: AP6021701 SOURCE CODE: CZ/0032/66/016/001/0045/0049

AUTHOR: Ransdorf, J.--Ransdorf, Yu. (Engineer; Candidate of sciences)

ORG: State Research Institute of Machine Building, Prague (Statni vyzkumny ustav pro stavbu stroju)

TITLE: Reducing machine noise through the wider application of plastics

SOURCE: Strojironstvi, v. 16, no. 1, 1966, 45-49

TOPIC TAGS: acoustic property, plastic, acoustic noise

ABSTRACT: The acoustical properties of plastics are discussed from the viewpoint of their use in curbing machine noise. A general explanation is given of the advantages that can be expected from plastics. Several formulas are derived on the basis of physical laws. Plastics are compared with conventional materials, and the differences underlined that must be taken into consideration in designing. Orig. art. has: 4 figures, 16 formulas, and 2 tables. [Based on author's Eng. abst.] [JPRS]

SUB CODE: 11, 20 / SUBM DATE: none / ORIG REF: 005 / SOV REF: 001  
OTH REF: 003

Card 1/1 PB

UDC: 628.572.621.8-758.34:679.5:621

RANSDORF, J.

Reduction of vibration in the body of a car by antivibration coatings. p. 304.

AUTOMOBIL. (Ministerstvo automobiloveho prumyslu a zemedeliskych stroju)  
Praha, Czechoslovakia, Vol. 3, No. 9, Sept. 1959.

Monthly List of East European Accessions, (EEAI), LC, Vol. 8, No. 12, Dec. 1959.  
Uncl.

RANSDORF, J., inz.

Damping of sound waves in elastic foundations of vibrating machines.  
Strojirenstvi 13 no.6:409-414 Je '63.

1. Statni vykumny ustav tepelna techniky, Praha.

RANSDORF, J. - Strojirenstvi - Vol. 5, no. 2, Feb. 1955.

Noise emanating from oil engines. p. 148.

Power needed for pressing joints and the strength of pressed joints. (Supplement)

p. 1

SO: Monthly list of East European Accessions, (HEAL), LC, Vol. 4, No. 9, Sept. 1955

Uncl.

RANSKÝ, J.

Methods of measuring automobile noise.

p. 219 (Automobil) Vol. 1, No. 7, July 1957, Praha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) IC, VOL. 7, NO. 1, Jan. 1958

ZISMAN, L.M., inzh.; BOBROV, I.I., inzh.; DOLGOPOLOV, V.M., inzh.; RANSEVICH, B.N., inzh.

Central voltage regulator of a network for group excitation regulation of generators. Elek. sta. 34 no.11:93-94 N '63. (MIRA 17:2)

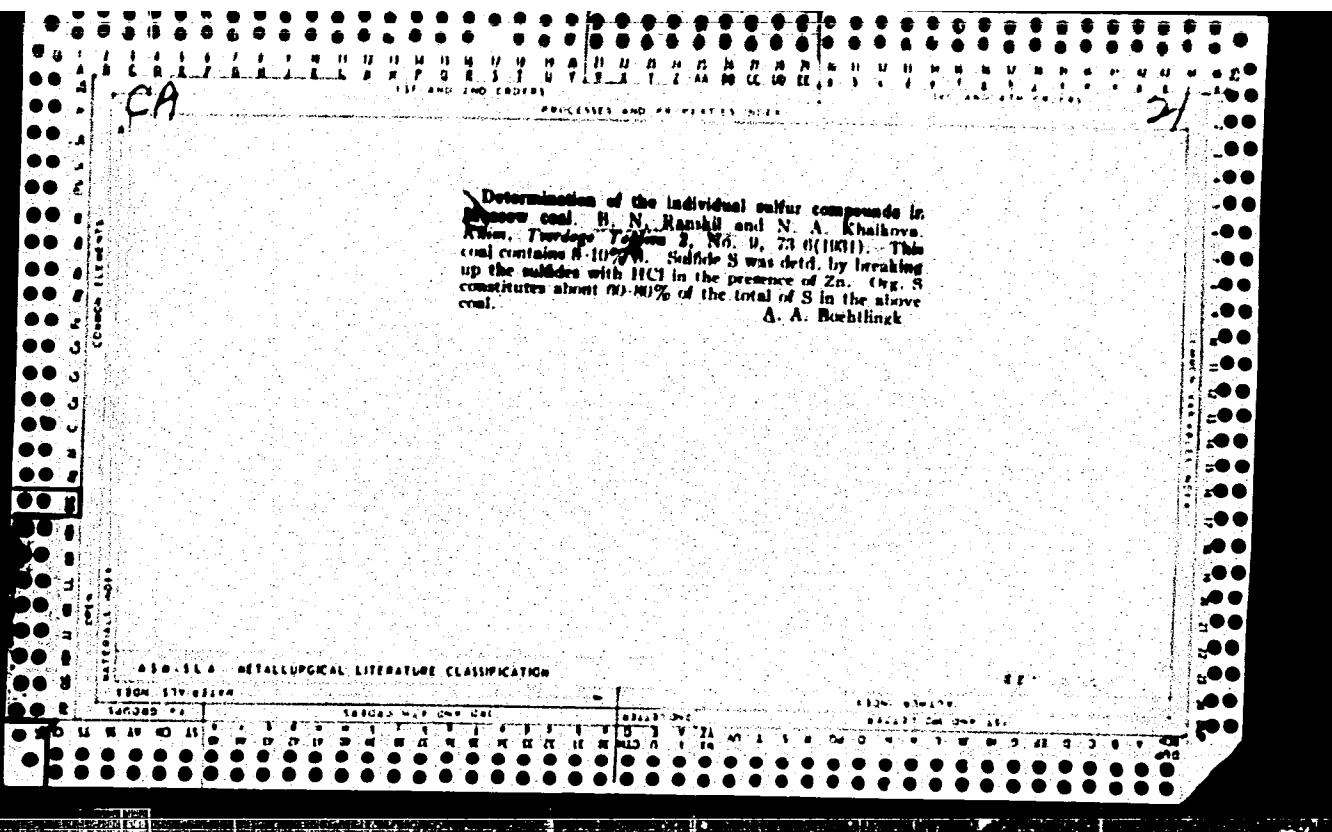
MUSOROV, V.M., Inzh.; MIKHAYLOV, A.P., Inzh.; RANZVICH, P.N., Inzh.

Decreasing of residual voltage in generators. Elek. sta. 36  
no.278 F '65. (MIRA 184)

DOLGOPOLOV, V.M., inzh.; ZISMAN, L.M., inzh.; NEYSHTADT, I.S., inzh.;  
RANSEVICH, B.N., inzh.; URIN, V.D., inzh.

Operation of the automatic operator of a multiple-unit hydro-electric power station with long-term frequency deviations from the nominal value. Elek. sta. 35 no.2:35-37 F '64.

(MIRA 17:6)



Recovery of potassium iodide. B. N. Ranski, Zadokaya Lab. 6, 514, 7 (1937). The procedure for the recovery of KI and NaI from the waste solns. of the iodometric detn. of Cu is based on filtering off  $CuI$ , neutralizing the filtrate with solid  $CaO$  and  $BaCl_2$ , filtering off  $CaSO_4$  and  $BaSO_4$ , evapg. the filtrate to dryness and leaching out KI and NaI.

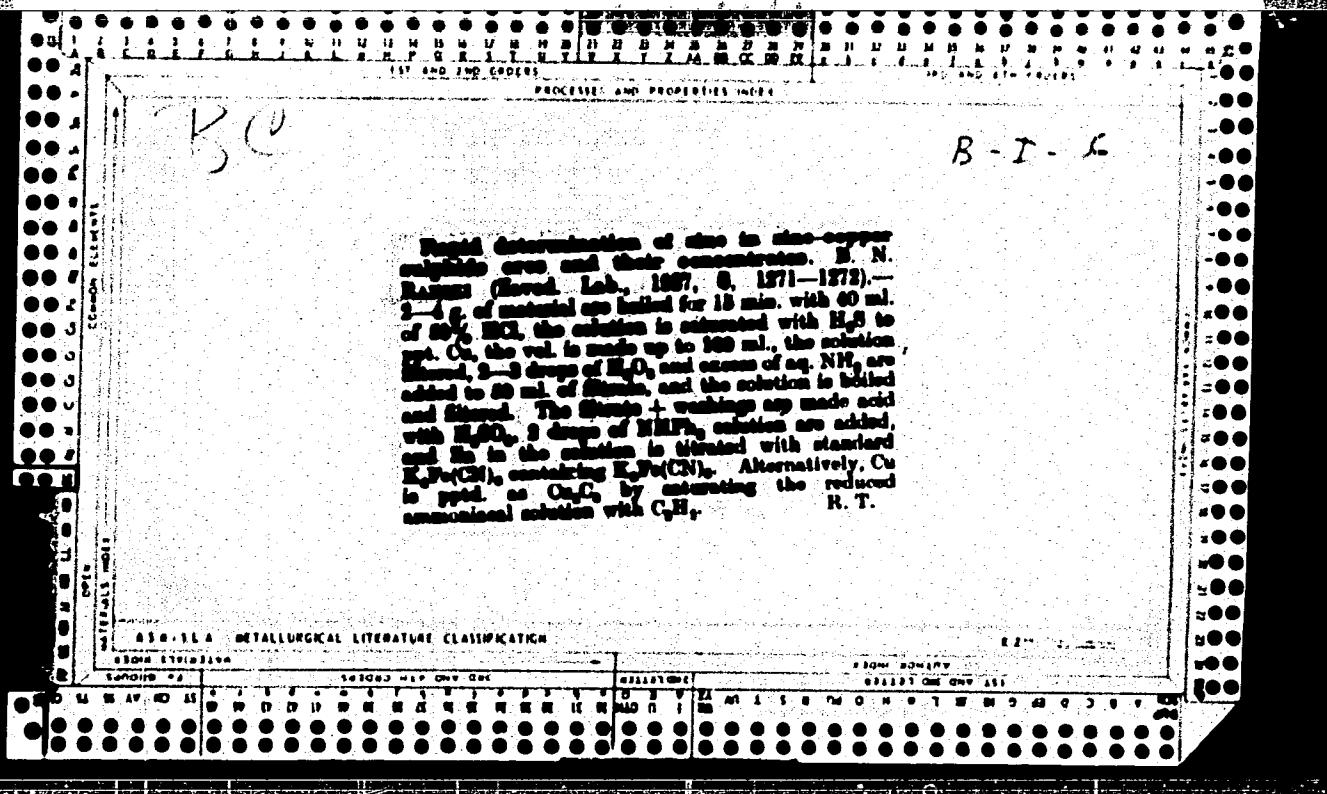
Chas. Blane

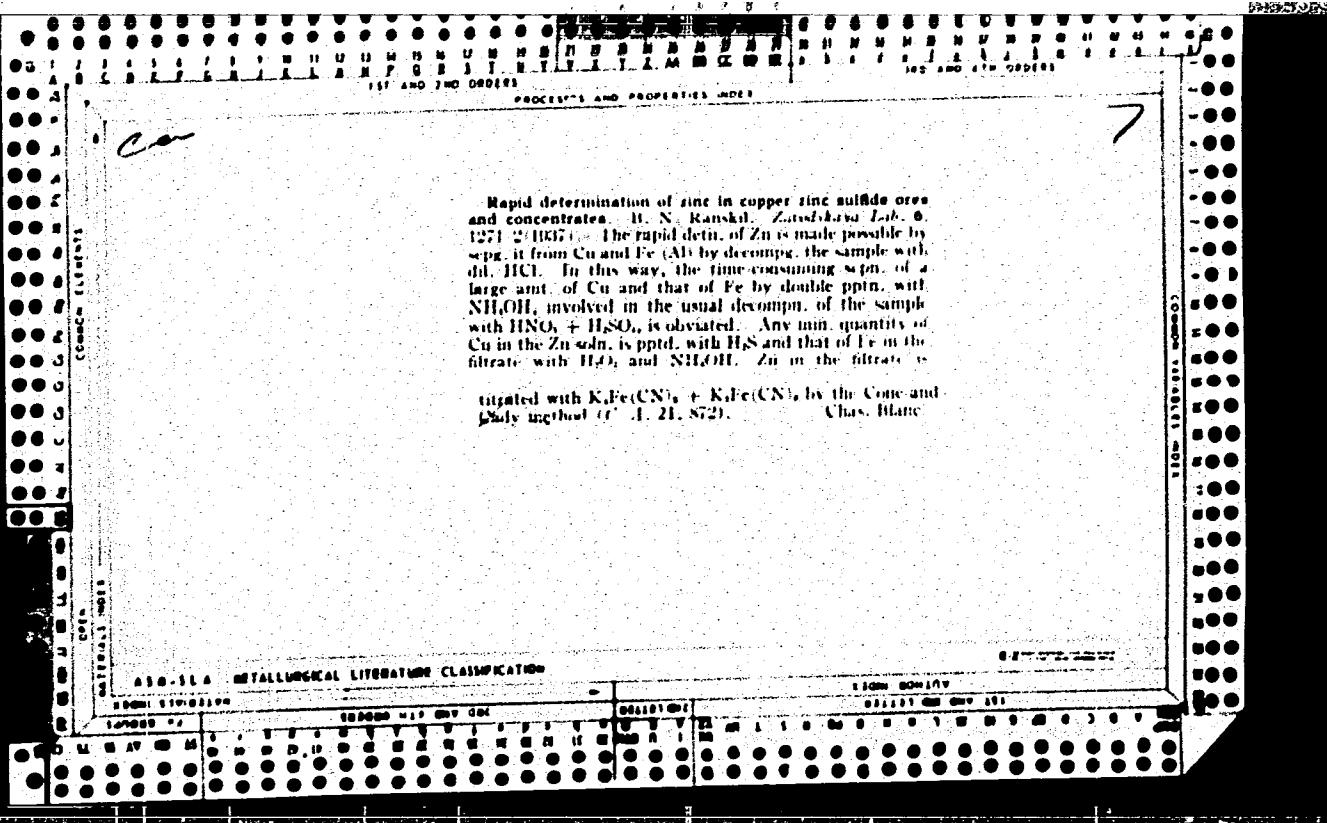
co

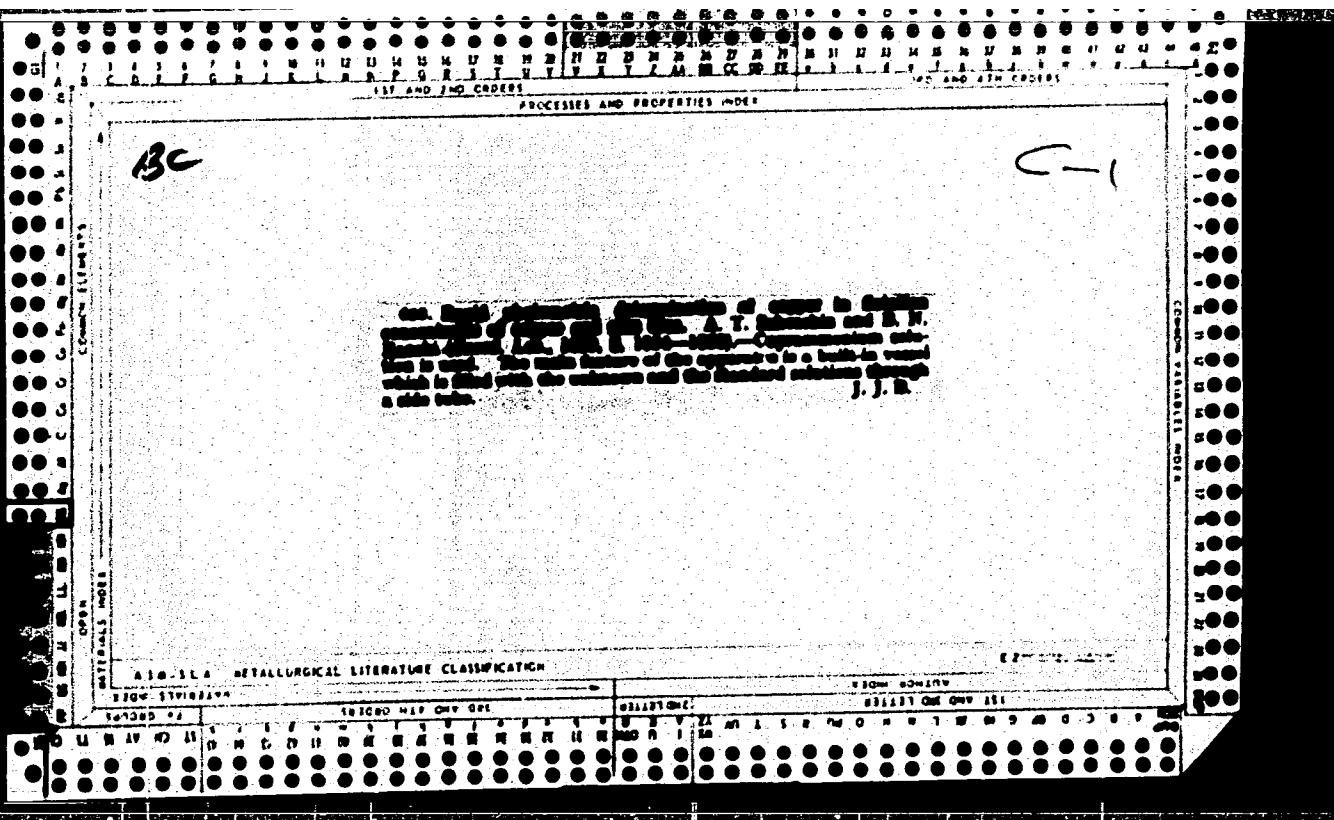
7

Rapid determination of zinc in copper-zinc sulfide ores and concentrates. B. N. Ransdorff. Zinsser-Krause Lab. & Test Co., 2101 S. Wabash Ave., Chicago, Ill. 60608. The rapid detn. of Zn is made possible by separ. of Cu and Fe (Al) by decompg. the sample with dil. HCl. In this way, the time-consuming sepn. of a large amt. of Cu and that of Fe by double ppn. with NH<sub>4</sub>OH, involved in the usual decompg. of the sample with HNO<sub>3</sub> + H<sub>2</sub>SO<sub>4</sub>, is obviated. Any min. quantity of Cu in the Zn soln. is pprd. with H<sub>2</sub>S and that of Fe in the filtrate with H<sub>2</sub>O<sub>2</sub> and NH<sub>4</sub>OH. Zn in the filtrate is  
violet (cf. C. A. 20, 1017): 10K<sub>2</sub>CaFe(CN)<sub>6</sub> + 2KMnO<sub>4</sub> + 8H<sub>2</sub>SO<sub>4</sub> + 10K<sub>2</sub>CaFe(CN)<sub>6</sub> + 6K<sub>2</sub>SO<sub>4</sub> + 2MnSO<sub>4</sub> + NH<sub>4</sub>OH. To det. K in carnallite, dissolve 1-2 g. in 10% H<sub>2</sub>O<sub>2</sub>, treat the filtrate with excess NaOH, neutralize the filtrate with HCl to methyl orange, add CaFe(CN)<sub>6</sub>, evap. to dryness and proceed as above. The detn. is accurate to 0.1%. Chas. Blanc

ASTM E 114 METALLURGICAL LITERATURE CLASSIFICATION







PROCESSSES AND PROPERTIES INDEX

*Cu*

A rapid photocalorimetric method for determining copper in the products of copper and zinc flotation. A. I. Shashkin and B. M. Mamontov. *Zavodskaya Lab.*, B, No. 10-11, 1054-6 (1959); *Khim. Referat. Zhur.* 1959, No. 4, 84.—The proposed app. differs slightly from the app. of Davydov (*C. A.* 53, 3347) and is more suitable for rapid mass detns. The app. was used for detg. Cu by the NH<sub>3</sub> method in the products of Cu and Zn flotation. The photocalorimeter LRTI was used for the "photocure." The photocurrent was measured with a galvanometer and an 8-12-v. and 20-watt lamp was used for the source of current. For the analysis of ores and concentrates dissolve 3 g. of the sample in a mixt. of HNO<sub>3</sub> and HCl, evap. with H<sub>2</sub>SO<sub>4</sub>, dissolve the residue in 100 cc. of water, add 70 cc. of NH<sub>3</sub>OH and bring the vol. to 220 cc. Filter the soln. from Fe(OH)<sub>3</sub>. Add 1% NH<sub>3</sub>OH to the bulb, regulate the intensity of the light so that the galvanometer indicates 0% of Cu and fill the bulb with the soln. under investigation. Two photocalorimetric detns. can be made in one min. The exp. error is 3-5% (relative) as compared with results obtained by the iodometric detn. —W. R. Henn

DROBCHENKO, A.T.; SMIENOV, V.I.; MAZANIK, V.N.; TIKHONOV, A.I.; RANSKIY,  
B.N.; KHARAM, V.A.

Retreatment of slags from the smelting of secondary copper con-  
taining raw materials. TSvet. met. 37 no.12:23-25 D '64  
(MIRA 18:2)

DROBCHENKO, A.T.; MAZANIK, V.N.; RANSKIY, B.N.; KHARAIM, V.A.; SMIRNOV, V.I.;  
TIKHONOV, A.I.

Regularities of the reduction process for liquid slags from copper  
smelting. TSvet. met. 36 no.12:15-18 " '63. (MIRA 17:2)

RANSKIY, E.

Production is the main field of our work. NTO 5 no. 7:46-48  
Jl '63. (MIRA 16:8)

1. Chlen soveta nauchno-tehnicheskogo obshchestva Kirovgradskogo medeplavil'nogo kombinata.  
(Kirovograd—Copper—Metallurgy)

GARENSKIKH, A.D.; RANSKIY, B.N.

Nickel in the process of crude copper smelting. TSvet. met. 35  
no.5:44-46 My '62. (MIRA 16:5)  
(Copper—Metallurgy) (Nickel—Metallurgy)

BOL'KOV, D.A.; RANSKIY, B.N.

Depressant action of cyanide and zinc sulfate in the selective flotation cycle of a collective concentrate. TSvet. met. 35 no.3;11-15 Mr '62. (MIRA 15:4)  
(Flotation--Equipment and supplies)

RANSKIY, B.N.; ARTEMOV, V.A.

Work practices of the Levikha Cementation Plant. TSvet.  
met. 34 no.11:81-82 N '61. (MIRA 14:11)  
(Levikha region--Cementation (Metallurgy))

GARENSKIKH, A.D.; DROBCHENKO, A.T.; RANSKIY, B.N.; SHELUDYAKOV, L.N.

Recovery from waste slag by cementation. Vest,AN Kazakh.SSR 17  
no.5:27-30 My '61. (MIRA 14:6)

(Slag)

AUTHOR: Ranskiy, B. N. SOV/32-24-7-7/65

TITLE: The Determination of Rhenium in Products Containing Molybdenum  
(Opredeleniye reniya v produktakh, soderzhashchikh molibden)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 7, pp. 803 - 804  
(USSR)

ABSTRACT: A colorimetric method was used in the investigation of molybdenites, which was recommended by the Institute of Rare Metals. This method is based upon the property of rhenium to color solutions containing thiocyanates of alkali metals, hydrochloric acid and tin chloride with a yellow tinge. As molybdenum disturbs this process, methods had to be found which permit to transform the sulfides into oxides without a loss of rhenium and a sufficiently rapid separation of the molybdenum from rhenium. First the weighed sample of the concentrate was annealed with calcium oxyhydrate, by which procedure molybdenum passes over to the calcium molybdate, which is only little soluble in water. Calcium nitrate was used as oxidizing agent. The course of analysis is described. When substances are used, the molybdenum content of which considerably surpasses that of rhenium, another method of determination must

Card 1/2

SOV/32-24-7-7/65

The Determination of Rhenium in Products Containing Molybdenum

be employed, as the coloring by the molybdenum complex predominates, which fact impedes the determination of rhenium. A method is described, which is based upon an absorption of molybdenum by sulfocarbon. Soft coal from Karaganda with a grain size ranging from 1 to 2 mm and with a specific weight of 0,26 g/cm<sup>3</sup> was used. The experiments were performed at a pH = 4,5 - 5,0, a complete absorption of molybdenum being attained, whereas the lesser absorption of rhenium was taken into account by throwing away the first portion of the filtrate. The results of the determinations are given in a table; error limits ranging from 15 to 20% and 7 to 15% rel., respectively being mentioned. There are 1 table and 2 references, 2 of which are Soviet.

ASSOCIATION: Balkhashskiy medeplavil'nyy zavod (Balkhash Copper Works)

Card 2/2

RANSKIY, B.N.

Determination of rhenium in molybdenum-containing materials.  
Zav. lab. 24 no. 7:803-804 '58. (MIRA 11:?)

1. Balkhashskiy medeplavil'nyy zavod.  
(Rhenium--Analysis)  
(Molybdenum compounds)

G-2

USSR/Analysis of Inorganic Substances

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19636

Author : B. N. Ranskiy

Inst :  
Title : Concerning Inaccuracy of Methods of GOST  
Analysis

Orig Pub: Zavod. Laboratoriya, 1956, 22 No 9, 1130 - 1134

Abstract: At the determination of oil in concentrates by calcination at 300°, the obtained results are not reproducible, because a portion of the flotation oils is converted into coke and remains in the sample as hard C (when treated with acids, C transforms into colloidal form and colors the solution brown). The temperature

Card 1/3

- 115 -

USSR/Analysis of Inorganic substances

G-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19636

accelerate the analysis, Mo should be determined in a weighed sample of raw concentrates after its calcination at 450° for the elimination of flotation oils and the oxidation of S<sup>2-</sup> accompanied with the burning out of S; at the following resolution of the weighed sample, the solution will not contain SO<sub>4</sub><sup>2-</sup>.

Card 3/3

- 117 -

BODILOVSKIY, V.G.; RANSKIY, Ye.G., inzh., retsenzent; USTINSKIY,  
A.A., kand. tekhn. nauk, retsenzent; NOVIKAS, V.S.,  
inzh., red.; MEDVEDEVA, M.A., tekhn.red.

[Vacuum devices and transistors in automatic control, remote  
control, and communication systems] Elektrovakuumnye i polu-  
provodnikovye pribory v ustroistvakh avtomatiki, telemekha-  
niki i sviazi. Moskva, Transzheldorizdat, 1963. 391 p.

(MIRA 17:2)

KEPKA, M., inz.; PUNCOCHAR, Zd., inz.; VESELY, J., inz.; KECLIK, V., inz.; BECVAR, J., inz.; RANT, Pavel, inz.; CHVOJKA, Jan, inz.; SOMER, B., inz. KALIVODA, A., inz.; HRBEK, A.

Information on metallurgy. Hut listy 18 no.3:207-223 Mr '63.

RANT, Zoran, prof. dr. inz. (Ljubljana); BIZJAK, Aleksander; SAREC, Janez

Thermodynamic diagrams for the systems  $H_2O-(NH_4)_2SO_4$  and  $H_2O-NH_4Cl$ .  
Stroj vest 8 no.4/5:95-98 0 '62.

1. Fakulteta za strojnictvo v Ljubljani. 2. Clan urednistva,  
"Strojniski vestnik" (for Rant).

RANT, Zoran, dr.sc., mech.eng., prof.

The Faculty of Mechanical Engineering in Ljubljana has become independent. Stroj vest 7 no.1:1 Ja '61. (EEAI 10:9)

1. Dean of Faculty for Mechanical Engineering, University of Ljubljana; clan urednistva, "Strojniski vestnik".

(Mechanical engineering) (Ljubljana)

RANT, Zoran, prof. dr. inz. (Ljubljana)

"Kinetics of gas reactions" by E. Cremer and M. Pahl. Reviewed  
by Z. Rant. Stroj vest 8 no.3:79 Je '62.

1. Clan Urednistva, "Strojniski vestnik".

RANT, Zoran, prof.dr.inz.

"The enthalpic diagrams for the mass-production contact processes" by J.Algermissen. Reviewed by Z.Rant. Stroj vest 8 no.1/2:32 Ap '62.

1. Clan Urednistva, "Strojniski vestnik."

RAMT, Zoran, prof.dr.inz. (Ljubljana)

Thermodynamics of combustion processes. Article dedicated to  
Prof. Dr. F.Bosnjakovic, engineer, on the occasion of his  
sixtieth anniversary. Stroj vest 8 no.1/2:1-5 Ap '62.

1. Fakulteta za strojnistro Univerze v Ljubljani, clan  
Urednistva, "Strojniski vestnik."

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